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Terms	Documents
112 and polyurethane	10

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<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI	112 and polyurethane	10	<a href="#">L14</a>
USPT,PGPB,JPAB,EPAB,DWPI	18 and 112	0	<a href="#">L13</a>
USPT,PGPB,JPAB,EPAB,DWPI	silver adj3 zirconium adj3 phosphate	65	<a href="#">L12</a>
USPT,PGPB,JPAB,EPAB,DWPI	110 and (tensile or tension or cohesive)	19	<a href="#">L11</a>
USPT,PGPB,JPAB,EPAB,DWPI	19 and silver	81	<a href="#">L10</a>
USPT,PGPB,JPAB,EPAB,DWPI	18 and (antimicrobial or antimicrobial)	219	<a href="#">L9</a>
USPT,PGPB,JPAB,EPAB,DWPI	polyurethane adj2 (film or wrap or container or tubing)	5166	<a href="#">L8</a>
USPT,PGPB,JPAB,EPAB,DWPI	15 and(antimicrobial or antimicrobial)	5	<a href="#">L7</a>
USPT,PGPB,JPAB,EPAB,DWPI	15 same (antimicrobial or antimicrobial)	1	<a href="#">L6</a>
USPT,PGPB,JPAB,EPAB,DWPI	11 same (cohesive or tensile)	200	<a href="#">L5</a>
USPT,PGPB,JPAB,EPAB,DWPI	12 and (cohesive or tensile)	100	<a href="#">L4</a>
USPT,PGPB,JPAB,EPAB,DWPI	12 and ((cohesive or tensile) adj2 propert\$)	5	<a href="#">L3</a>
USPT,PGPB,JPAB,EPAB,DWPI	11 and (antibacterial or antimicrobial)	269	<a href="#">L2</a>
USPT,PGPB,JPAB,EPAB,DWPI	polyurethane adj2 (film or wrap)	4725	<a href="#">L1</a>

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L14: Entry 7 of 10

File: JPAB

Jun 27, 1995

PUB-NO: JP407166425A  
DOCUMENT-IDENTIFIER: JP 07166425 A  
TITLE: POLYURETHANE ELASTIC FIBER

PUBN-DATE: June 27, 1995

## INVENTOR-INFORMATION:

NAME

INABA, IKUNOBU

COUNTRY

## ASSIGNEE-INFORMATION:

NAME

ASAHI CHEM IND CO LTD

COUNTRY

APPL-NO: JP05293284

APPL-DATE: November 24, 1993

INT-CL (IPC): D01F 6/94; A01N 59/00; C08L 75/04; D01F 1/10

## ABSTRACT:

PURPOSE: To obtain a polyurethane elastic fiber having excellent antimicrobial function.

CONSTITUTION: This is a silver-containing polyurethane elastic fiber. An applicable state of silver to be incorporated is a silver ion, a silver salt, silver fine particle or their combination and further the silver ion, the silver fine particle or their combination is preferable because it exhibits excellent antimicrobial activity with a small quantity of silver. The silver content in the fiber is: in a silver ion, 10-5000ppm, preferably 100-1000ppm; in a silver salt or silver fine particle, 0.005-1.0wt.%, preferably 0.025-0.5wt.%. The method to incorporate silver is as follows: in the case of a silver ion, a spinning solution is compounded with a supporting body of the silver ion, preferably a zirconium phosphate-containing ion-exchanger capable of supporting the silver ion, the ingredients are homogeneously dispersed and subsequently the obtained liquid is subjected to spinning; in the case of a silver salt, a spinning solution compounded with a silver salt itself of e.g. trifluoroacetic acid is subjected to spinning; in the case of silver fine particle, a spinning solution is compounded with a silver salt and a reducing agent, the ingredients are homogeneously dispersed and this is subjected to a heat treatment at about 150°C to reduce the silver ion to silver followed by spinning.

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